

IN THE CLAIMS

1. (currently amended) Low expansion transparent glass-ceramics obtained by heat treating a base glass produced at a melting temperature of 1530° or below, said glass-ceramics containing 0.5 - 2% on the basis of the amount of total oxides having an average linear thermal expansion coefficient (α) within a range from $+6 \times 10^{-7}/^{\circ}\text{C}$ to $+35 \times 10^{-7}/^{\circ}\text{C}$ within a temperature range from 100° to 300° and having 80% transmittance wavelength (T_{80}) of 700nm or below.

2. (original) Low expansion transparent glass-ceramics as defined in claim 1 wherein internal transmittance for a plate having thickness of 10mm is 75% or over at light wavelength of 1550nm.

3. (original) Low expansion transparent glass-ceramics as defined in claim 1 having a heat resisting temperature of 800° or over.

4. (original) Low expansion transparent glass-ceramics as defined in claim 1 having Young's modulus of 90 GPa or over.

5. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing β -quartz or β -quartz solid solution as a predominant crystal phase.

6. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing 1.5% - 3.5% Li_2O in mass % on the basis of amount of total oxides.

7. (original) Low expansion transparent glass-ceramics as defined in claim 1 wherein amount of eluting lithium ion is less than $0.0050\mu\text{g}/\text{cm}^2$.

8. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing 3% - 6% TiO_2 in mass % on the basis of amount of total oxides.

9. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing three or more ingredients among RO ingredients (where R is Mg, Ca, Sr, Ba or Zn) in an amount of 0.5% or over in mass % on the basis of amount of total oxides for respective ingredients.

10. (original) Low expansion transparent glass-ceramics as defined in claim 9 containing ZnO in a larger amount than other RO ingredients in mass % on the basis of amount of total oxides.

11. (original) Low expansion transparent glass-ceramics as defined in claim 9 containing a total amount of the RO ingredients of 3.5% or over in mass % on the basis of amount of total oxides.

12. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing a total amount of R'O ingredients (where R' is Mg, Ca, Ba or Sr) of 3% - 13% in mass % on the basis of amount of total oxides.

13. (original) Low expansion transparent glass-ceramics as defined in claim 1 comprising in mass % on the basis of amount of total oxides:

SiO_2

50 - 655

	Al_2O_3	20 - 30%
	MgO	0.5 - 2%
	CaO	0.5 - 2%
	SrO	0 - 10%
	BaO	1 - 5%
	ZnO	0.5 -
15%		
	Li_2O	1.5 - 3.5%
	TiO_2	3 - 6%
	ZrO_2	1 - 5%
	Nb_2O_5	0 - 5%
	La_2O_3	0 - 5%
	Y_2O_3	0 - 5%
	As_2O_3 and/or Sb_2O_3	0 - 2%.

14. (canceled)

15. (canceled)

16. (canceled)

17. (canceled)

18. (canceled)

19. (canceled)

20. (canceled)

21. (canceled)

22. (canceled)

23. (canceled)

24. (canceled)

25. (canceled)

26. (canceled)

27. (canceled)

28. (canceled)

29. (canceled)

30. (canceled)

31. (canceled)

32. (canceled)

33. (canceled)

34. (canceled)

35. (canceled)

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (canceled)

41. (canceled)

42. (canceled)